VOLUME 53 · CONTENTS

No 1 JANUARY 1996 Page

Review

1 Cancer in relation to occupational exposure to trichloroethylene *Noel S Weiss*

Papers

6 Bladder cancer and occupation: a case control study in northern Italy *Stefano Porru, Vito Aulenti, Francesco Donato, Paolo Boffetta, Raffaella Fazioli, Sergio Cosciani Cunico, Lorenzo Alessio*

11 Mortality of white South African gold miners *P J Reid, G K Sluis-Cremer*

17 A case cohort study of suicide in relation to exposure to electrical and magnetic fields among electrical utility workers *Dalsu Baris, Ben G Armstrong, Jan Deadman, Gilles Thériault*

25 A mortality study of electrical utility workers in Québec *Dalsu Baris, Ben G Armstrong, Jan Deadman, Gilles Thériault*

32 Effects on the nervous system among welders exposed to aluminium and manganese *Bengt Sjögren, Anders Iregren, Wolfgang Frech, Maud Hagman, Lotta Johansson, Maria Tesarz, Arne Wennberg*

41 Blood antioxidant enzymes as markers of exposure or effect in coal miners *Rachel Perrin-Nadif, Guy Auburtin, Martine Dusch, Jean-Marc Porcher, Jean-Marie Mur*

46 Lung function in Lancashire cotton and man made fibre spinning mill operatives *David Fishwick, Angela M Fletcher, C Anthony C Pickering, Robert McL Niven, E Brian Faragher*

51 Health complaints and working conditions experienced in relation to work and age *J P J Broerson, B C H de Zwart, F J H van Dijk, T F Meijman, M van Veldhoven*

58 Reliability of a questionnaire on sickness absence with specific attention to absence due to back pain and respiratory complaints *Alex Burdorf, Wendel Post, Ton Bruggeling*

63 Enzyme immunoassays for total and allergen specific IgE in population studies *Gert Doekes, Jeroen Douwes, Inge Wouters, Siegfried de Wind, Remko Houba, Albert Hollander*

Correspondence

71 Gall bladder cancer cluster in a food industry *Tom Bellander, Ingvar Lundberg*

71 Occupational medicine: the way ahead *Ira Madan*

71 Need for vaccination of sewer workers against leptospirosis and hepatitis A *A G Nicol, M E Wright, A C Prentice, A Carrol, S Kemp, J M Reid*

71 Notices

72 Book reviews

No 2 FEBRUARY 1996

Papers

73 Health of children born to medical radiographers *Eve Roman, Pat Doyle, Pat Ansell, Diana Bull, Valerie Beral*

80 Maternal occupational exposure during pregnancy and the risk of spina bifida *Birgitte M Blatter, Nel Roeleveld, Gerhard A Zielhuis, Fons J M Gabreëls, André L M Verbeek*

87 Survival in cohorts of asbestos cement workers and controls *M Albin, V Horstmann, K Jakobsson, H Welinder*

94 Toxicokinetics of 2,4- and 2,6-toluenediamine in hydrolysed urine and plasma after occupational exposure to 2,4- and 2,6-toluene diisocyanate *Pernilla Lind, Marianne Dalene, Gunnar Skarping, Lars Hagmar*

100 Short term inhalation exposure to turpentine: toxicokinetics and acute effects in men *Agneta Falk Filipsson*

106 Sump bay fever: inhalational fever associated with a biologically contaminated water aerosol *Kenneth Anderson, Charles P McSharry, Colin Clark, Christopher J Clark, G Robin Barclay, George P Morris*

112 Work related impairment of nasal function in Swedish woodwork teachers *Mats Åhman, Mats Holmström, Irena Cynkier, Erik Söderman*

118 Serum endothelin concentrations in workers exposed to vibration *K T Palmer, H Mason*

125 A cross sectional study of the independent effect of occupation on lung function in British coal miners *Sarah Lewis, John Bennett, Kathie Richards, John Britton*

129 The survival analyses of 2738 patients with simple pneumoconiosis *Qilong Yi, Zhaohuan Zhang*

136 Predicting duration of sleep from the three process model of regulation of alertness *Torbjörn Åkerstedt, Simon Folkard*

Correspondence

142 Three decades of occupational health research in South Wales *Hugh F Thomas*

142 Occupational medicine: the way ahead *T P Finnegan, A H M MacMillan, S A St J Miller, J C Richardson*

143 Notices

144 Book review

144 Correction

No 3 MARCH 1996

Review

145 Occupational risk factors for female breast cancer: a review *Mark S Goldberg, France Labrèche*

Papers

157 Exposure to crocidolite and the incidence of different histological types of lung cancer *Nicholas H de Klerk, A William Musk, Jan L Eccles, Janice Hansen, Michael S T Hobbs*

160 Compensating lung cancer patients occupationally exposed to coal tar pitch volatiles *Ben Armstrong, Gilles Thériault*

168 Melanoma and occupation: results of a case-control study *Lin Fritschi, Jack Siemiatycki*

174 Investigation on neurotoxicity of occupational exposure to cyclohexane: a neurophysiological study *Junko Yuasa, Reiko Kishi, Teruko Eguchi, Izumi Harabuchi, Toshio Kawai, Masayuki Ikeda, Ryouichi Sugimoto, Hiroyuki Matsumoto, Hirotsugu Miyake*

180 Biomarkers of exposure, antibodies, and respiratory symptoms in workers heating polyurethane glue *G Skarping, M Dalene, B-G Svensson, M Littorin, B Åkesson, H Welinder, S Skerfving*

188 Epidemiological study of hard metal asthma *Y Kusaka, M Iki, S Kumagai, S Goto*

194 Decreased ventilatory function in hard metal workers *Y Kusaka, M Iki, S Kumagai, S Goto*

200 Distribution and determinants of personal exposure to nitrogen dioxide in school children *Catherine H Linaker, Anoop J Chauhan, Hazel Inskip, Anthony J Frew, Alan Sillence, David Coggon, Stephen T Holgate*

204 Prevalence of the sick building syndrome symptoms in office workers before and after being exposed to a building with an improved ventilation system *Jean Bourbeau, Chantal Brisson, Sylvain Allaire*

Short report

211 Glutathione transferase activity and formation of macromolecular adducts in two cases of acute methyl bromide poisoning *Robert Garnier, Marie-Odile Rambourg-Schepens, Andreas Müller, Ernst Hallier*

216 Book review

216 Notices

216 Correction

No 4 APRIL 1996

Papers

217 Survey of perceived stress and work demands of consultant doctors *Raymond M Agius, Harriet Blenkin, Ian J Deary, Helen E Zealley, Robert A Wood*

225 Relations between age at occupational exposure to ionising radiation and cancer risk *Alice M Stewart, George W Kneale*

231 Incidence of cancer among Norwegian boiler welders *Tor Erik Danielsen, Sverre Langård, Aage Andersen*

235 Myocardial infarction among male bus, taxi, and lorry drivers in middle Sweden *Per Gustavsson, Lars Alfredsson, Hans Brunnberg, Niklas Hammar, Robert Jakobsson, Christina Reuterwall, Piroska Östlin*

241 Chronic respiratory symptoms in children and adults living along streets with high traffic density *Arie Oosterlee, Marjon Drijver, Erik Lebret, Bert Brunekreef*

248 Effects of nitrogen oxides on natural killer cells in glass craftsmen and braziers *Mansur R Azari, Faith M Williams, John Kirby, Peter Kelly, John W Edwards, Peter G Blain*

252 Allergy to complex platinum salts: a historical prospective cohort study *Michel Niezborala, Robert Garnier*

258 Exposure to sheep dip and the incidence of acute symptoms in a group of Welsh sheep farmers *Huw Rees*

264 Cumulative concentrations of blood lead and postural stability *S E Chia, H P Chia, C N Ong, J Jeyaratnam*

269 Surveillance of deaths on board Danish merchant ships, 1986–93: implications for prevention *Henrik L Hansen*

276 Local cold exposure of the hands from cryosectioning work in histopathological and toxicological laboratories: signs and symptoms of peripheral neuropathy and Raynaud's phenomenon *G Wieslander, D Norbäck, C Edling*

281 An analysis of the Vietnamese system of occupational safety and health and setting priorities with the analytical hierarchy process *Shinya Matsuda*

287 Notices

287 Book review

288 Reviewers of volume 52

No 5 MAY 1996

Papers

289 Cancer mortality among workers in the German rubber industry: 1981–91 *Stephan K Weiland, Kenneth A Mundt, Ulrich Keil, Barbara Kraemer, Thomas Birk, Michael Person, Annette M Bucher, Kurt Straif, Jutta Schumann, Lloyd Chambless*

299 Mortality study of employees with potential exposure to epichlorohydrin: a 10 year update *Shan P Tsai, Elizabeth L Gilstrap, Charles E Ross*

305 Radium in drinking water and risk of bone cancer in Ontario youths: a second study and combined analysis *Murray M Finkelstein, Nancy Kreiger*

312 Dust exposure, respiratory symptoms, and longitudinal decline of lung function in young coal miners *Plinio Carta, Gabriella Aru, Maria Teresa Barbieri, Giuseppe Avataneo, Duilio Casula*

320 Geographical and temporal differences in the urinary excretion of inorganic arsenic: a Belgian population study *J P Buchet, J Staessen, H Roels, R Lauwerys, R Fagard*

328 Biomarkers of exposure to low concentrations of benzene: a field assessment *C N Ong, P W Kok, H Y Ong, C Y Shi, B L Lee, W H Phoon, K T Tan*

334 Exposure to magnetic fields estimated from last job held in an electrical utility in Québec, Canada: a validation study *Dalsu Baris, Ben G Armstrong*

339 Retinal angiography in divers *A W Murrison, R J Pethybridge, A J Rintoul, M N Jeffrey, K Sehmi, A C Bird*

343 Mortality from injuries and other causes in a cohort of 21 800 Brazilian steel workers *S M Barreto, A J Swerdlow, P G Smith, C D Higgins, A Andrade*

351 Psychosocial and physical risk factors for musculoskeletal disorders of the neck, shoulders, and lower back in salespeople *Torsten Skov, Vilhelm Borg, Elsa Ørhede*

Correspondence

357 Risk of myelogenous leukaemia and multiple myeloma in workers exposed to benzene *David A Savitz, Kurtis W Andrews*

358 Comment on EQM Testmate OP cholinesterase kit *Araceli Amaya, Matthew Keifer, Rob McConnell*

358 Notices

359 Book reviews

No 6 JUNE 1996

Review

361 Modifiers of non-specific symptoms in occupational and environmental syndromes *A Spurgeon, D Gompertz, J M Harrington*

Papers

367 Shiftwork and mortality from ischaemic heart disease *R McNamee, K Binks, S Jones, D Faulkner, A Slovak, N M Cherry*

374 Shift work, nitrous oxide exposure, and spontaneous abortion among Swedish midwives *Gösta Axelsson, Gunnar Ahlborg Jr, Lennart Bodin*

379 Effect of subchronic in vivo exposure to nitrogen dioxide on lung tissue inflammation, airway microvascular leakage, and in vitro bronchial muscle responsiveness in rats *Pasquale Chitano, Vanda Rado, Antonio Di Stefano, Alberto Papi, Anna Boniotti, Gianna Zancuoghi, Piera Boschetto, Maria Romano, Mario Salmona, Adalberto Ciaccia, Leonardo Michele Fabbri, Cristina Elizabetta Mapp*

387 Wool and grain dusts stimulate TNF secretion by alveolar macrophages in vitro *D M Brown, K Donaldson*

394 Cancer mortality among shoe manufacturing workers: an analysis of two cohorts *Hua Fu, Paul A Demers, Adele Seniori Costantini, Paul Winter, Didier Colin, Manolis Kogevinas, Paolo Boffetta*

399 Lung cancer in asbestos cement workers in Denmark *Edith Raffn, Ebbe Villasden, Gerda Engholm, Elsebeth Lynge*

403 Occupational exposure to poultry and prevalence of antibodies against Marek's disease virus and avian leukosis retroviruses *D Choudat, G Dambrine, B Delemotte, F Coudert*

411 Semen quality of men employed at a lead smelter *Bruce H Alexander, Harvey Checkoway, Chris van Netten, Charles H Muller, Timothy G Ewers, Joel D Kaufman, Beth A Mueller, Thomas L Vaughan, Elaine M Faustman*

417 Biological indicators of exposure to total and respirable aluminium dust fractions in a primary aluminium smelter *Halina B Röllin, Penelope Theodorou, Anthony C Cantrell*

422 A cross sectional study of chemical industry workers with occupational exposure to persulphates *Rolf Merget, Axel Buenemann, Rupprecht Kulzer, Anja Rueckmann, Rolf Breitstadt, Annegret Kniffka, Herbert Kratisch, Reinhard Vormberg, Gerhard Schultze-Werninghaus*

427 Prevalence of dermatoses and skin sensitisation associated with use of pesticides in fruit farmers of southern Taiwan *Yueliang Leon Guo, Bour-Jr Wang, Ching-Chang Lee, Jung-Der Wang*

432 Book reviews

No 7 JULY 1996

Papers

433 A bibliometric study of the trend in articles related to epidemiology published in occupational health journals *Ken Takahashi, Tsutomu Hoshuyama, Kazuko Ikegami, Takashi Itoh, Toshiaki Higashi, Toshiteru Okubo*

439 Mutation rates at the glycophorin A and HPRT loci in uranium miners exposed to radon progeny *E M Shanahan, D Peterson, D Roxby, J Quintana, A A Morley, A Woodward*

445 Upper aerodigestive cancer in battery manufacturers and steel workers exposed to mineral acid mists *David Coggon, Brian Pannett, Graham Wield*

450 Work related respiratory symptoms in radiographers *Julia Smedley, Hazel Inskip, Graham Wield, David Coggon*

455 Controlling the healthy worker survivor effect: an example of arsenic exposure and respiratory cancer *H M Arrighi, I Hertz-Picciotto*

463 Cancer incidence and specific occupational exposures in the Swedish leather tanning industry: a cohort based case-control study *Zoli Mikoczy, Andrejs Schütz, Ulf Strömberg, Lars Hagmar*

468 Creatine kinase activities in brain and blood: possible neurotoxic indicator of acrylamide intoxication *Masato Matsuoka, Hirohiko Matsumura, Hideki Igisu*

472 Relation of cumulative exposure to inorganic lead and neuropsychological test performance *Karen N Lindgren, Valerie L Masten, D Patrick Ford, Margit L Bleecker*

478 Neuropsychological verbal tests may lack "hold" properties in occupational studies of neurotoxic effects *Hans Michélsen, Ingvar Lundberg*

484 Bacterial and fungal flora of dust deposits in a pig building *W Thomson Martin, Yuanhui Zhang, Philip Willson, Timothy P Archer, Colleen Kinahan, Ernest M Barber*

488 Prognostic factors for return to work after a first compensated episode of back pain *Claire Infante-Rivard, Monique Lortie*

Short reports

495 Exposure to cosmic radiation of British Airways flying crew on ultralonghaul routes *M Bagshaw, D Irvine, D M Davies*

499 Exposure to styrene and mortality from non-malignant respiratory diseases *Esther Welp, Timo Partanen, Manolis Kogevinas, Aage Andersen, Tom Bellander, Marco Biocca, David Coggon, Valerio Gennaro, Henrik Kolstad, Ingvar Lundberg, Elsebeth Lunge, Alan Spence, Gilles Ferro, Rodolfo Saracci, Paolo Boffetta*

Correspondence

502 Surveillance systems and the role of a preventive medical team in chemical incidents *Robin Philipp*

502 Factors affecting recognition of cancer risks of nuclear workers *Mark Little, Chris Sharp*

503 Parental exposure to radiation and childhood cancer *Tom Sorahan*

503 Offspring sex ratio as an indicator of reproductive hazards *Zhou Weijin, Jorn Olsen*

504 Book review

No 8 AUGUST 1996

Review

505 Epidemiological appraisal of studies of residential exposure to power frequency magnetic fields and adult cancers *Chung-Yi Li, Gilles Thériault, Ruey S Lin*

Methodology

511 Identifying environmental risk to male reproductive function by occupational sperm studies: logistics and design options *Jens Peter Bonde, Aleksander Giwercman, Erik Ernst, Asclepios*

Papers

520 Abnormalities on neurological examination among sheep farmers exposed to organophosphorous pesticides *Jeremy R Beach, Anne Spurgeon, Richard Stephens, Tom Heafield, Ian A Calvert, Leonard S Levy, J Malcolm Harrington*

526 Glioma and occupational exposure in Sweden, a case-control study *Ylva Rodvall, Anders Ahlbom, Bo Spännare, Gun Nise*

533 Hairy cell leukaemia and occupational exposure to benzene *J Clavel, F Conso, J-C Limasset, L Mandereau, P Roche, G Flandrin, D Hémon*

540 A study of mortality among 14 730 male workers in 12 Norwegian ferroalloy plants: cohort characteristics and the main causes of death *Ånund Hobbesland, Helge Kjuus, Dag S Thelle*

547 Mesothelioma in a community in the north of England *A T Edward, D Whitaker, K Browne, F D Pooley, A R Gibbs*

553 Carinal and tubular airway particle concentrations in the large airways of non-smokers in the general population: evidence for high particle concentration at airway carinas *A Churg, S Vedal*

559 Comparison of dust related respiratory effects in Dutch and Canadian grain handling industries: a pooled analysis *Susan J M Peelen, Dick Heederik, Helen D Dimich-Ward, Moira Chan-Yeung, Susan M Kennedy*

567 Relation between pulmonary clearance and particle burden: a Michaelis-Menten-like kinetic model *Rong Chun Yu, Stephen M Rappaport*

Short report

573 Laboratory animal allergy: anaphylaxis from a needle injury *A D Watt, C P McSharry*

Correspondence

575 Risk of thyroid nodules in subjects occupationally exposed to radiation: a cross sectional study *Mark Little, Chris Sharp*

575 A cross sectional study of the independent effect of occupation on lung function in British coal miners *Anthony Seaton*

576 Notices

No 9 SEPTEMBER 1996

Papers

577 Accidents related to manure in eastern Switzerland: an epidemiological study *A Knoblauch, B Steiner, S Bachmann, G Trachsler, R Burgheer, J Osterwalder*

583 Immunological changes among farmers exposed to phenoxy herbicides: preliminary observations *Annunziata Faustini, Laura Settimi, Roberta Pacifici, Valeria Fano, Piergiorgio Zuccaro, Francesco Forastiere*

586 Acute effects of exposure to air-contaminants in a sawmill on healthy volunteers *M Dahlqvist, L Palmberg, P Malmberg, B-M Sundblad, U Ulfvarson, W Zhiping*

591 Interferences of urinary tract infection in the measurement of urinary nitrous oxide *P Apostoli, M Gelmi, L Alessio, A Turano*

595 Urinary alkoxyacetic acids and renal effects of exposure to ethylene glycol ethers *J Laitinen, J Liesivuori, H Savolainen*

601 Comparison of average estimated metabolic rates for styrene in previously exposed and unexposed groups with pharmacokinetic modelling *Yue Wang, Lawrence L Kupper, Agneta Löf, Stephen M Rappaport*

606 Cause specific mortality and cancer incidence among employees exposed to 2,3,7,8-TCDD after a 1953 reactor accident *M Gerald Ott, Andreas Zober*

613 Mortality among chemical workers in a factory where formaldehyde was used *Gary M Marsh, Roslyn A Stone, Nurtan A Esmen, Vivian L Henderson, Kyung Y Lee*

628 Lung cinescintigraphy in the dynamic assessment of ventilation and mucociliary clearance of asbestos cement workers *Luigi Di Lorenzo, Marino Mele, Massimo M Pegorari, Angelo Fratello, Carlo Zocchetti, Daniella Capozzi*

636 Work related risk factors for musculoskeletal complaints in the nursing profession: results of a questionnaire survey *Josephine A Engels, Joost W J van der Gulden, Theo F Senden, Bep van't Hof*

Short reports

642 Research priorities in occupational medicine: a survey of United Kingdom personnel managers *J M Harrington, I A Calvert*

645 Reanalysis of mortality from lung cancer among diatomaceous earth industry workers, with consideration of potential confounding by asbestos exposure *Harvey Checkoway, Nicholas J Heyer, Paul A Demers, Graham W Gibbs*

648 Book reviews

648 Notices

No 10 OCTOBER 1996

Editorial

649 Drinking water quality: new challenges for an old problem *Malcolm Sim, Christopher Fairley, John McNeil*

Papers

652 Chronic lymphocytic leukaemias and non-Hodgkin's lymphomas by histological type in farming-animal breeding workers: a population case-control study based on a priori exposure matrices *Oriana Nanni, Dino Amadori, Claudio Lugaresi, Fabio Falcini, Emanuela Scarpi, Ariele Saragoni, Eva Buiatti*

658 Effects on symptoms and lung function in humans experimentally exposed to diesel exhaust *B Rudell, M-C Ledin, U Hammarström, N Stjernberg, B Lundbäck, T Sandström*

663 Acute effects of vibration on peripheral blood flow in healthy subjects *Cara E Egan, B H Espie, S McGrann, Kathleen M McKenna, Judith A Allen*

670 Enzyme exposure and enzyme sensitisation in the baking industry *Markku Vanhanen, Timo Tuomi, Heikki Hokkanen, Outi Tupasela, Anneli Tuomainen, Peter C Holmberg, Matti Leisola, Henrik Nordman*

677 Rescheduling a three shift system at a steel rolling mill: effects of a one hour delay of shift starting times on sleep and alertness in younger and older workers *Roger R Rosa, Mikko Härmä, Katriina Pulli, Mirjam Mulder, Ove Näsman*

686 Older workers in the construction industry: results of a routine health examination and a five year follow up *Volker Arndt, Dietrich Rothenbacher, Hermann Brenner, Eckart Fraisse, Bernd Zschenderlein, Ulrich Daniel, Stephan Schuberth, Theodor M Fliedner*

692 Assessment of exposure to polycyclic aromatic hydrocarbons in engine rooms by measurement of urinary 1-hydroxypyrene *Bente E Moen, Ralph Nilsson, Rolf Nordlinder, Steinar Øvrebø, Kristin Bleie, Anne Helene Skorve, Bjørg Eli Hollund*

697 Clinical measures, smoking, radon exposure, and risk of lung cancer in uranium miners *Murray M Finkelstein*

703 Mortality of workers exposed to toluene diisocyanate in the polyurethane foam industry *Teresa M Schnorr, Kyle Steenland, Grace M Egeland, Mark Boeniger, David Egilman*

708 Exposure to nickel compounds and smoking in relation to incidence of lung and nasal cancer among nickel refinery workers *Aa Andersen, S R Berge, A Engeland, T Norseth*

Short report

714 Mortality study of nickel platers with special reference to cancers of the stomach and lung, 1945–93 *D Pang, D C L Burges, T Sorahan*

Correspondence

718 Preliminary experimental findings using intraperitoneal assays to determine carcinogenic potential of man made mineral fibres: relevance to recent proposals for classification testing *Friedrich Pott, Markus Roller*

719 Occupational medicine: the way ahead *Adele Pilkington*

720 Notices

No 11 NOVEMBER 1996

Methodology

721 Current approaches to neurobehavioural testing in occupational health *Anne Spurgeon*

Papers

726 Symptoms and cholinesterase activity among rural residents living near cotton fields in Nicaragua *Matthew Keifer, Francisca Rivas, Jai Dong Moon, Harvey Checkoway*

730 Mortality of farmers and farmers' wives in England and Wales 1979–80, 1982–90 *Hazel Inskip, David Coggon, Paul Winter, Brian Pannett*

736 Measurement by ICP-MS of lead in plasma and whole blood of lead workers and controls *Andrejs Schütz, Ingvar A Bergdahl, Anders Ekholm, Staffan Skerfving*

741 Respiratory health of workers exposed to low levels of chromium in stainless steel production *Markku Huvinen, Jukka Uitti, Anders Zitting, Pekka Roto, Kristina Virkola, Pertti Kuikka, Pekka Laippala, Antero Aitio*

748 Airway responsiveness, respiratory symptoms, and exposures to soluble oil mist in mechanical workers *N Massin, A B Bohadana, P Wild, P Goutet, H Kirstetter, J P Toamain*

753 Longitudinal decline in lung function in patients with occupational asthma due to western red cedar *Fung J Lin, Helen Dimich-Ward, Moira Chan-Yeung*

757 Self reported rate of occupational asthma in Sweden 1990–2 *Kjell Torén*

762 Non-fibrous inorganic particles in bronchoalveolar lavage fluid of pottery workers *M Falchi, L Paoletti, S Mariotta, S Giosue, L Guidi, L Biondo, P Scavalli, A Bisetti*

767 Comparison of eight and 12 hour shifts: impacts on health, wellbeing, and alertness during the shift *Philip Tucker, Jane Barton, Simon Folkard*

773 Lymphohaematopoietic malignancies and quantitative estimates of exposure to benzene in Canadian petroleum distribution workers *A Robert Schnatter, Thomas W Armstrong, Mark J Nicolich, Florence S Thompson, Arnold M Katz, Wendy W Huebner, Eileen D Pearlman*

782 Investigation of a cluster of pituitary adenomas in workers in the aluminum industry *Mark R Cullen, Harvey Checkoway, Bruce H Alexander*

Short report

787 Cancer mortality among local authority pest control officers in England and Wales *H F Thomas, P D Winter, L J Donaldson*

791 Book reviews

792 Notices

No 12 DECEMBER 1996

Methodology

793 Application of meta-analysis in reviewing occupational cohort studies *Otto Wong, Gerhard K Raabe*

Papers

801 Retention of asbestos fibres in lungs of workers with asbestosis, asbestosis and lung cancer, and mesothelioma in Asbestos township *A Dufresne, R Bégin, S Massé, C M Dufresne, P Loosereewanich, G Perrault*

808 Relation of spirometric function to radiographic interstitial fibrosis in two large workforces exposed to asbestos: an evaluation of the ILO profusion score *Albert Miller, Ruth Lilis, James Godbold, Xiaochu Wu*

813 Induction of mesothelioma after intrapleural inoculation of F344 rats with silicon carbide whiskers or continuous ceramic filaments *N F Johnson, F F Hahn*

817 Adverse health effects of PM_{10} particles: involvement of iron in generation of hydroxyl radical *Peter S Gilmour, David M Brown, T Gordon Lindsay, Paul H Beswick, William MacNee, Kenneth Donaldson*

823 Incidence of childhood leukaemia and non-Hodgkin's lymphoma in the vicinity of nuclear sites in Scotland, 1968–93 *L Sharp, R J Black, E F Harkness, P A McKinney*

832 Industrial accidents are related to relative body weight: the Israeli CORDIS study *Paul Froom, Samuel Melamed, Estela Kristal-Boneh, Daphne Gofer, Joseph Ribak*

836 Blood lead in pregnant women in the urban slums of Lucknow, India *Shally Awasthi, Rajiv Awasthi, Vinod Kumar Pande, R C Srivastav, Howard Frumkin*

Short reports

841 Concentration of blood lead and ethnicity in the United Kingdom *S T Kolev, I House, G Bell, D Shaw, V Murray*

844 Morbidity study of extruder personnel with potential exposure to brominated dioxins and furans. II Results of clinical laboratory studies *M Gerald Ott, Andreas Zober*

847 Book reviews

847 Notices

848 Indexes